



A.D. 1853 N^o 1192.

S P E C I F I C A T I O N

OF

JOHN BROWNE.

CHIMNEYS OR FLUES, AND APPARATUS
FOR INCREASING DRAUGHT, CONSUMING
SMOKE, OR UTILIZING THE SAME.

LONDON:

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1854.





A.D. 1853 N° 1192.

**Chimneys or Flues, and Apparatus for Increasing
Draught, Consuming Smoke, or Utilizing the
same.**

(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by John Browne at the
Office of the Commissioners of Patents, with his Petition, on
the 14th May 1853.

I, JOHN BROWNE, of Upper Charlotte Street, in the County of
5 Middlesex, Gentleman, do hereby declare the nature of the said
Invention for “IMPROVEMENTS IN THE CONSTRUCTION OF CHIMNEYS OR
FLUES, AND IN APPARATUS FOR INCREASING DRAUGHT, CONSUMING SMOKE,
OR UTILIZING THE SAME,” to be as follows :—

I propose, in most instances, to dispense with the use of stacks or
10 tall chimneys, carrying the flue or smoke conductor only so high as
may be necessary to bring into play the remaining portions of my In-
vention. I cause, by any motive power, a cylinder to revolve, and as
the smoke rises this cylinder will receive it; and in order that it may
not return downwards, (or, where the tall chimney is still used and my
15 apparatus applied,) upward, and to increase the draught, I place a fan
wheel opposite to the first-named cylinder, so that if the chimney be a
short one covered over at the top, apertures are to be left therein near
the top and facing each other; the smoke on rising would endeavour

Browne's Improvements in the Construction of Chimneys or Flues, &c.

to escape at both outlets, but it is met by the revolution of the fan wheel which drives it back, and the opposite cylinder (foliated in its interior, receives or takes up the smoke, revolving with it in its interior, and depositing it in a cistern containing water, from whence it is removed when requisite, the lighter part or soot being usable for various 5 useful purposes, and the heavier being capable of recombustion. Or, in some instances, I use only the foliated cylinder, making an aperture in the chimney, and enclosing the cylinder and apparatus in a casing outside. To conservatory chimneys and flues, where a full draught is required, and no motive power but air can be obtained, I propose to fix 10 on the outside and somewhat elevated a fan wheel, either horizontal or vertical, to act in a similar manner as the sails of a windmill. This will be geared on to the various other apparatus used in any convenient manner.

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